



- 1 One second is approximately 0.00001157 of a day. Which expression represents this number in scientific notation?

A  $1.157 \times 10^{-6}$   
B  $1.157 \times 10^{-5}$   
C  $1.157 \times 10^5$   
D  $1.157 \times 10^6$

- 2 The temperature on the planet Mercury alternates depending on which side is lit by the sun. The sunlit side can reach up to  $950^{\circ}\text{F}$ , and the dark side can drop as low as  $-346^{\circ}\text{F}$ . What is the difference between the hottest temperature and the coldest temperature?

A  $604^{\circ}\text{F}$   
B  $606^{\circ}\text{F}$   
C  $1296^{\circ}\text{F}$   
D  $1396^{\circ}\text{F}$

- 3 A tree grows 2.4 inches a month. How many months will it take for the tree to grow to a height of 36 inches?

A 15 months  
B 18 months  
C 38 months  
D 86 months

- 4 Jill is making cookies for a party. The recipe calls for  $2\frac{2}{3}$  cups of sugar. If she needs to make 3 batches of cookies, how much sugar will she need?

A 8 cups  
B  $7\frac{2}{3}$  cups  
C  $6\frac{2}{3}$  cups  
D  $5\frac{2}{3}$  cups



- 5 Henry wants to buy a new video game that costs \$49.95 including tax. He has \$22.50 in his bank account, and his mother said she would give him \$20 for his birthday. Which of the following can Henry use to find the amount of money he still needs to buy the video game?
- A Subtract the amount his mother plans to give him from the amount in his bank account. Add the difference to the cost of the video game.
  - B Subtract the amount his mother plans to give him from the amount in his bank account. Subtract the difference from the cost of the video game.
  - C Add the amount in his bank account to the amount his mother plans to give him. Subtract the sum from the cost of the video.
  - D Add the amount in his bank account to the amount his mother plans to give him. Add the sum to the cost of the video game.

- 6 The distance from Earth to Venus is approximately  $4.184 \times 10^7$  kilometers. How would this distance be expressed in standard notation?

- A 41,840,000,000 km
- B 41,840,000 km
- C 4,184,000 km
- D 0.0000004184 km

- 7 Allison bought 8.42 pounds of fudge. If each pound of fudge costs \$3.50, how much will Allison pay for the fudge?

- A \$4.92
- B \$11.92
- C \$24.92
- D \$29.47



- 8 Phyllis has  $5\frac{1}{2}$  pounds of candy to use to make goody bags for a birthday party. If she puts  $\frac{1}{4}$  of a pound of candy in each goody bag, how many goody bags can she make?

A 5 goody bags  
B 6 goody bags  
C 20 goody bags  
D 22 goody bags

- 9 Which fraction below is between  $\frac{1}{2}$  and  $\frac{2}{3}$ ?

A  $\frac{1}{4}$   
B  $\frac{1}{3}$   
C  $\frac{3}{5}$   
D  $\frac{3}{4}$

- 10 Charles bought  $3\frac{3}{4}$  feet of chain. If the chain costs \$2.50 per foot, which equation can Charles use to find  $c$ , the total cost to buy the chain?

A  $c = 3.75 + 2.50$   
B  $c = 3.75 \cdot 2.50$   
C  $c = 3.75 \div 2.50$   
D  $c = 3.75 - 2.50$

- 11 Which list shows the numbers in order from least to greatest?

A  $\frac{3}{8}, 0.4, 0.625, \frac{2}{3}, \frac{4}{5}$   
B  $\frac{3}{8}, 0.4, \frac{2}{3}, 0.625, \frac{4}{5}$   
C  $\frac{3}{8}, \frac{2}{3}, \frac{4}{5}, 0.4, 0.625$   
D  $\frac{3}{8}, \frac{4}{5}, 0.625, 0.4, \frac{2}{3}$